

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An intraocular lens

having a configuration such that, in each an ~~immersion medium~~ in vivo environment of an eye, an incoming wave with an elliptically oblongly curved wave front is refracted into an outgoing wave with a substantially spherical wave front.

2. (Currently Amended) An intraocular lens according to claim 1,

wherein the lens has a positive refractive power in the environment of ~~immersion medium~~ and a negative spherical aberration.

3. (Currently Amended) An intraocular lens according to claim 2,

wherein the lens has a refractive power at the center of the lens which in the environment of ~~immersion medium~~ is greater than or equal to +3 dpt, and wherein the lens is so configured that, in an air environment, an incoming wave with a substantially plane wave front is refracted into an outgoing wave with a hyperbolic wave front.

4. **(Previously Presented)** An intracular lens according to claim 3,
wherein the hyperbolic wave front has an asphericity of less than or equal
to -5.

5. **(Previously Presented)** An intraocular lens according to claim 3,
wherein the lens has at least one convexly curved surface whose curvature
has an asphericity of less than or equal to -1.

6. **(Currently Amended)** An intraocular lens according to claim 1,
wherein the lens has a refractive power at the center of the lens which in
the ~~immersion-medium~~ environment is at most +2 dpt and at least -1 dpt, and
wherein the lens is so configured that an incoming wave with a substantially
plane wave front is refracted into an outgoing wave whose apex surface has a
meridian with an inflexion point.

7. **(Currently Amended)** An intraocular lens according to claim 1,
wherein the lens has a refractive power at the center of the lens which in
the ~~immersion-medium~~ environment is less than or equal to -2 dpt, and wherein
the lens is so configured that an incoming wave with a substantially plane wave
front is refracted into an outgoing wave with an elliptically oblongly curved wave
front whose asphericity measured in air is greater than + 10.

8. **(Currently Amended)** A method of determining ~~the~~ imaging properties of an intraocular lens, according to claim 1, comprising:

- producing a parallel light beam,
- orienting the light beam ~~[[on to]]~~ onto the intraocular lens,
- breaking the light beam refracted by the intraocular lens down into a plurality of focused beams via a lens arrangement, and
- detecting local distribution of the focus beams focused by the lens arrangement.

9. **(Previously Presented)** An intraocular lens according to claim 5, wherein the hyperbolic wave front has an asphericity of less than or equal to -5.